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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/781,125	02/18/2004	Christopher S. Johnson	400.149US02	3355	
27073 75	08/12/2005		EXAMINER		
LEFFERT JAY & POLGLAZE, P.A.			LE, THONG QUOC		
P.O. BOX 5810	09				
MINNEAPOLIS, MN 55458-1009			ART UNIT	PAPER NUMBER	
			2827	2827	
			DATE MAILED: 08/12/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	10/781,125	JOHNSON, CHRISTOPHER S.				
Office Action Summary	Examiner	Art Unit				
	Thong Q. Le	2827				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).						
Status						
1) Responsive to communication(s) filed on						
	action is non-final.					
3) Since this application is in condition for allowar	3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
closed in accordance with the practice under E	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims		· .				
4) Claim(s) <u>1-44</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.	5) Claim(s) is/are allowed.					
	Claim(s) <u>1-44</u> is/are rejected.					
8) Claim(s) are subject to restriction and/o	r election requirement.					
Application Papers						
9)☐ The specification is objected to by the Examiner.						
10)☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d). 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Tribin The path of declaration is objected to by the Ex	ammer. Note the attached Office	Action of form PTO-192.				
Priority under 35 U.S.C. § 119		•				
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3. Copies of the certified copies of the priority documents have been received in this National Stage						
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.						
est the attached detailed enloc action for a list of the defailed copies hat received.						
Attachment(s)						
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)						
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) 	Paper No(s)/Mail Da 5) Notice of Informal P	ate atent Application (PTO-152)				
Paper No(s)/Mail Date	6) Other:					

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DETAILED ACTION

1. Amendment filed on 06/20/2005 has been entered.

2. Claims 1-44 are presented for examination.

Response to Arguments

3. Applicant's arguments with respect to claims 1-44 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in a patent granted on an application for patent by another filed in the United States before the invention thereof by the applicant for patent, or on an international application by another who has fulfilled the requirements of paragraphs (1), (2), and (4) of section 371(c) of this title before the invention thereof by the applicant for patent.

The changes made to 35 U.S.C. 102(e) by the American Inventors Protection Act of 1999 (AIPA) and the Intellectual Property and High Technology Technical Amendments Act of 2002 do not apply when the reference is a U.S. patent resulting directly or indirectly from an international application filed before November 29, 2000. Therefore, the prior art date of the reference is determined under 35 U.S.C. 102(e) prior to the amendment by the AIPA (pre-AIPA 35 U.S.C. 102(e)).

5. Claims 1-44 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Nobunaga et al. (U.S. Patent No. 6,304,510).

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Regarding claims 1-3, 9-44, Nobunaga et al. disclose a system (Figure 1), comprising:

a controller (Figure 1, 200); and

a memory device (100) coupled to the controller to receive signals (Figure 1) therefrom, and comprising:

an array of memory cells (Figure 1, Memory Array) arranged in a plurality of addressable banks (BANK0-4, Column 2, lines 66-67), each bank comprises addressable rows and columns of memory cells (Column 2, lines 3-4);

a mode register (Figure 1, 130, MODE REGISTER); and

address circuitry (Figure 5, Column 6, lines 12-24) coupled to the mode register to configure the addressable banks in response to a program state of the mode register (Column 4, lines 26-43). More specifically, regarding claims 2-3, Nobunaga et al. disclose wherein the addressable banks can be configured as either four or eight banks (Figure 1, four banks BANK0-BANK3), and the address circuitry selectively routes address signal to either a row decoder or bank decoder (118) in response to the mode register (Column4, lines 4-67, Column 5, lines 1-35).

Regarding claims 4-8,Nobunaga et al. clearly disclosed as discussed above, and the array of X memory cells is Y banks, each having X/y memory cells, and a second state of mode register configures the array into Z banks each having X/Z memory cells (Column 3, lines 64-67, Column 4, lines 1-15, lines 44+ TABLE 1), and wherein the address circuitry comprises column row and bank address decoders (Figure 1, 118, 122), and the address circuitry comprises a multiplex circuit (Figure 1, 117).

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thong Q. Le whose telephone number is 571-272-1783. The examiner can normally be reached on 8:00am-5:00pm M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoai V. Ho can be reached on 571-272-1777. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Thong Q.**1**Le Primary Examiner Art Unit 2827

THONG LEI PRIMARY EXAMINER